





View of proposed commercial activity on K Street (top)

Historic view of New York Avenue west of Mount Vernon Square (bottom left)

View of typical DC residential street (bottom right)

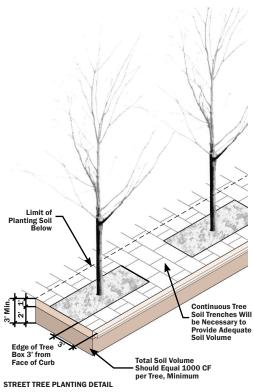
The design guidelines define a detailed palette of materials to be used throughout the Mount Vernon Triangle's streetscape and public realm. As a whole, this palette articulates a distinctive identity that unifies the new neighborhood while allowing sufficient flexibility to accommodate unique circumstances. The palette is made up of contextually appropriate, durable materials that support basic comfort, livability, sustainability, and an elegant, enduring aesthetic.

The material palette visibly expresses the functional hierarchy within the neighborhood. As regional connectors, the Avenues are the most prominent components of the Triangle. K Street, the neighborhood's central commercial corridor, is second in status. The Triangle's other streets, reservations, and parks constitute the third tier in the neighborhood hierarchy.

The design guidelines include selections of street trees, street tree surface treatments, other plantings, lighting, site furniture, and paving. For each element, brief descriptions are accompanied by a chart specifying the element type to be used on each street within the Triangle. The guidelines are fully compatible with DDOT standards. It is suggested that other reports, such as the AWI Transportation Architecture Design Standards and the Downtown Standards, be consulted for additional information.

Design Guidelines

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SPACING

Street trees are spaced approximately 30'-40' on center except for on New York Avenue, where tighter spacing of approximately 25'-30' on center allows for a more continuous street edge.

SIZE

Street trees are planted at 2.5"-3" caliper (CAL) unless otherwise noted. On K Street, the London Planetrees are 4" CAL and the specimen trees at 5th and K are 8" CAL.

STAKING

Street trees on K Street are supported using a subsurface earth anchoring system. Staking of street trees on all other streets is discouraged.

SOILS

Total soil volume per street tree should equal 1000 cubic feet (CF), minimum, at 3' depth. On K Street, where large trees are planted amongst shrubs and groundcovers, 1500 CF per tree at 4' depth is needed. Continuous tree trenches are recommended (see diagram above). Specifications for planting soils may vary depending on existing conditions and proposed planting.

SPECIES

Single species are specified for prominent streets and avenues as a unified gesture that provides special definition and character to the street. On all other streets, mixed species from the listed palette enable individual choice to determine a diverse urban canopy.

EXISTING TREES

On all streets and avenues, existing trees are to be assessed for health and vigor. Those in good or excellent condition are preserved and incorporated into the palette specified for that street. A preliminary reference for assessing tree health is the Casey Trees Tree Map, which can be accessed online at www.caseytrees.org. During construction, every effort should be made to protect existing healthy trees from damage.

RECOMMENDED STREET TREES

Latin Name	Cultivar/Variety	Common Name
SMALL		
Acer buergerianum	Streetwise	Trident Maple
Crataegus crusgalli inermis	Crusader	Cockspur Hawthorn
Crataegus phaenopyrum	Princeton Sentry	Washington Hawthorn
Maackia amurensis	Starburst	Amur Maackia
MEDIUM		
Koelreuteria paniculata	September	Golden Raintree
Tilia cordata	Greenspire	Littleleaf Linden
Zelkova serrata		Zelkova
LARGE		
Celtis occidentalis	Magnifica	Hackberry
Ginkgo biloba	Autumn Gold,	Ginkgo
	Princeton Sentry	
	(male cultivars)	
Gymnocladus dioica	(male cultivars)	Kentucky Coffeetree
Metasequoia glyptostroboides		Dawn Redwood
Quercus phellos		Willow Oak
Quercus bicolor		Swamp White Oak
Platanus xacerifolia	Yarwood, Bloodgood	London Planetree
Styphnolobium japonicum	Regent	Japanese Scholar Tree
Ulmus parvifolia	Emer I (Athena),	Lacebark Elm
	Emer II (Allee)	

MATRIX OF STREETS AND RECOMMENDED STREET TREES

Massachusetts Avenue	S	ΕE	A L	. S () P	A G	E S	28-	2 9
Curb-side row									
Center row									
Building-front row									
New York Avenue	S	EΕ	A L	. s (P	A G	E S	28-	2 9
Curb-side row									
Double row									
Building-front row									
New Jersey Avenue	S	EΕ	A L	. s (P	A G	E S	28-	2 9
Curb-side row									
Center row									
Building-front row									
H Street									
Eye Street									
K Street		S	EE	P	A G	E S	2 2	- 2 5	
L Street									
7th Street					N O	NE			_
6th Street									
5th Street									
4th Street									
3rd Street									
2nd Street									
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Planter edging



Unit pavers

MATRIX OF STREETS AND RECOMMENDED STREET TREE SURFACE TREATMENTS





K Street metal railing precedent

PLANTER EDGING

For all streets except K Street, all tree boxes are edged with hoop-type metal edging on all four sides to protect tree roots and groundcover planting from foot traffic. Tree grates are strongly discouraged.

RAISED PLANTER EDGING WITH METAL RAILING

A raised granite edging and metal rail surround the planting beds on K Street. The edge is raised on three sides and flush on the building side to allow water to drain into the planting beds. The metal rail should be approximately 18" high and contemporary in style. An example of a similar rail is shown above.

GROUNDCOVER

For newly planted trees and existing trees under 6" CAL, annuals that won't compete with the tree for water are planted in the tree boxes. For established trees, a combination of groundcovers and perennials can be used for lasting effect. The following plants are suggested:

Bulbs - Chionodoxa forbesii, Scilla siberica,
Narcissus spp., Crocus spp., Leucojum spp.
Annuals - Impatiens, Coleus, Ipomoea, Lantana,
Melampodium, Scaevola, Lobularia maritimum
Perennials - Liriope muscari, Parthenocissus
quinquefolia, Pachysandra terminalis, Geranium 'Rozanne,'
Alchemilla mollis, Euphorbia var. robbiae

UNIT PAVERS - LOW-IMPACT DEVELOPMENT OPPORTUNITY

Permeable unit pavers or unit pavers with wide joints set in a permeable setting bed are recommended between curb-side tree boxes along the Avenues to maximize the amount of water available to tree roots in this particularly harsh growing environment, as well as allowing for reduced runoff and increased groundwater recharge.

Street Trees - Surface Treatment

Street Trees

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GENERAL RECOMMENDATIONS

Other planted areas in the Triangle, such as neighborhood parks and private gardens, should be handled in the spirit of the broader goals driving the design of the streetscape and public realm as a whole. Before the design process begins, the condition of existing plants should be assessed. Future maintenance and irrigation options should be considered as design proceeds. Soils should be tested and amended accordingly. In general, plantings should incorporate trees, shrubs, and perennials that offer multi-season interest. Large numbers of each plant should be used for a bold effect (e.g. 5-7 of each shrub, 20-30 of each perennial, and 100-150 of a groundcover).

RECOMMENDED PLANT LIST

Cultivar/Variety Common Name

Latin Name

Street Trees - see p	age 34	
Ornamental Trees		
Acer palmatum	Bloodgood	Japanese Maple
Betula nigra	Heritage	River Birch
Cercis canadensis	Forest Pansy	Eastern Redbud
Chionanthus virginicus		Fringe Tree
Cornus florida		Flowering Dogwood
Crataegus viridis	Winter King	Winter King Hawthorn
Fagus grandifolia		American Beech
Halesia carolina		Carolina Silverbell
llex opaca		American Holly
Lagerstroemia	Natchez, Acoma	Crape Myrtle
Magnolia xsoulangiana		Saucer Magnolia
Oxydendrum arboreum		Sourwood
Prunus serrulata	Kwansan	Kwansan Cherry
Shrubs		
Berberis thunbergii	Crimson Pygmy, Aurea	Barberry cultivars
	Rosy glow	
Buxus	Green Velvet,	Boxwood
	Green Gem	Camellia
Camellia	Polar Ice, Snow Flurry,	
	and other varieties	
Cornus alba	Elegantissima	Red Stem Dogwood
Cornus sericea	Silver and Gold	Yellow Stem Dogwood
Cotoneaster horizontalis		Rockspray
Hibiscus syriacus	Bluebird, Diana, etc.	Rose of Sharon
Hydrangea macrophylla	Nikko Blue, Variegata,	Hydrangea cultivars
	Endless Summer	
Hydrangea quercifolia		Oak Leaf Hydrangea
llex verticillata	Winter Red	Winter Berry
llex xmeserveae	Blue Princess, Blue Prince	e Blue Holly
Jasminum nudiflorum		Winter Jasmine
Juniperus squamata	Blue Star	Blue Star Juniper
Loropetalum chinense	Burgundy	Chinese Fringe Flower
Pieris japonica	Dorothy Wyckoff	Andromeda
Picea pungens	R.H. Montgomery	
Pinus mugo	Pumilo	Dwarf Mugo Pine
Prunus xcistena		Purple Sand Cherry
Prunus laurocerasus	Otto Luykens	Cherry Laurel
Rhododendron	Allure, Balsaminiflorum,	Hybrid Evergreen
	and other varieties	Azaleas
Rosa	Carefree Wonder	Roses
	and other varieties	
Sarcococca hookerana		Himalayan Sarcococca
Skimmia japonica		Japanese Skimmia
Spiraea thunbergii	Ogon/Agon	Agon Spiraea
Stephanandra incisa	Crispa	Cut Leaf Stephanandra
Thuja occidentalis	Emerald Green	topriorialitin
Vitex agnus-castus		Chaste Tree
Yucca filamentosa	Gold Sword, Bright Edge	Variegated Adam's
. adda mamonidaa	Cold Official, Dilgitt Luge	Needle
Perennials		
Alchemilla mollis		Lady's Mantle
Amsonia hubrichtii		Bluestar

Latin Name	Cultivar/Variety	
Anemone tomentosa	Robustissima	Japanese Anemone
Anemone japonica	Honorine Jobert	Japanese Anemone
Astilbe chinensis var. tacquetii	Superba	Astilbe
Brunnera macrophylla		Siberian Bugloss
Carex elata	Aurea	Variegated Sedge
Echinacea purpurea	Magnus	Purple Coneflower
Geranium	Rozanne	
Geranium macrorrhizum		Bigroot Geranium
Hakonechloa macra	Aureola	Variegated Hakone
Helleborus xhybridus		Lenten Rose
Helleborus foetidus		Stinking Hellebore
Hemerocallis	Happy Returns	Daylily
Heuchera	Plum Pudding	Coral Bells
Hibiscus moscheutos	Lord Baltimore, Lady	Rose Mallow
	Baltimore	
Hosta plantaginea	Aphrodite	August Lily
Hosta sieboldiana	Elegans	
Nepeta	Walker's Low	Catmint
Polygonatum odoratum	Variegatum	Var. Solomon's Seal
Salvia officinalis	Berggarten	Sage
Salvia	Blue Hill	Meadow Sage
Sedum	Autumn Joy, Matrona	Stonecrop
Ferns		
Adiantum pedatum		Maidenhair fern
Athyrium nipponicum	Pictum	Japanese painted ferr
Athyrium felix-femina		Lady fern
Matteuccia struthiopteris		Ostrich fern
Grasses		
Hakonechloa macra		Hakone Grass
Imperata cylindrica	var. rubra	Japanese Blood Grass
Miscanthus sinensis	Gracillimus	Eulalia, Silver Grass
Panicum virgatum	Haense Hermes	Switch Grass
Pennisetum alopecuroides	Moodry	omicon didoo
Groundcovers	Woodiy	
Euonymus fortunei	Coloratus	Wintercreeper
Euphorbia amygdaloides	var. robbaie	Wood Spurge
Liriope muscari	Big Blue, Silvery	Lilyturf
	Sunproof	
Lonicera pileata		Boxleaf Honeysuckle
Pachysandra terminalis	Green Sheen	Pachysandra
		Periwinkle
Vinca minor		Periwinkie
_		Periwinkie
Annuals	Blue Horizon	Periwinkie
Annuals Ageratum	Blue Horizon Compact Red	Coleus
Annuals Ageratum Coleus		
Annuals Ageratum Coleus Ipomoea batatas	Compact Red	Coleus
Annuals Ageratum Coleus Ipomoea batatas Melampodium paludosum	Compact Red Marguerite, Blackie	Coleus Sweet Potato Vine
Annuals Ageratum Coleus Ipomoea batatas Melampodium paludosum Salvia guaranitica	Compact Red Marguerite, Blackie Lemon Delight	Coleus Sweet Potato Vine
Annuals Ageratum Coleus Ipomoea batatas Melampodium paludosum Salvia guaranitica	Compact Red Marguerite, Blackie Lemon Delight Blue Chiquita, Indigo	Coleus Sweet Potato Vine
Annuals Ageratum Coleus Ipomoea batatas Melampodium paludosum Salvia guaranitica	Compact Red Marguerite, Blackie Lemon Delight	Coleus Sweet Potato Vine
Annuals Ageratum Coleus Ipomoea batatas Melampodium paludosum Salvia guaranitica Salvia	Compact Red Marguerite, Blackie Lemon Delight Blue Chiquita, Indigo	Coleus Sweet Potato Vine Melampodium
Vinca minor Annuals Ageratum Coleus Ipomoea batatas Melampodium paludosum Salvia guaranitica Salvia Vines Campsis radicans Hydrangea anomola	Compact Red Marguerite, Blackie Lemon Delight Blue Chiquita, Indigo	Coleus Sweet Potato Vine

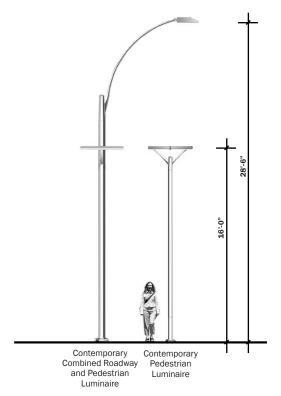


TRADITIONAL PALETTE

Lighting for streets and sidewalks throughout most of the Triangle should follow the traditional palette typical of other DC neighborhoods and boulevards. On the Avenues, a combination of the Teardrop Pendant street light and the single-globe pedestrian light is recommended. For the neighborhood streets, the pedestrian light alone is sufficient. Pole color, mounting height, and bulb type should conform to DDOT standards and be consistent throughout the Triangle.

MATRIX OF STREETS AND RECOMMENDED LIGHTING

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CONTEMPORARY PALETTE

For 5th Street and K Street, a more contemporary palette of street and pedestrian lighting complements the unique architecture and streetscape and reinforces the special status of these streets as primary retail corridors. On K Street, the Combined Roadway and Pedestrian Luminaire is alternated with the Pedestrian Luminaire. On 5th Street, the Pedestrian Luminaire alone is sufficient. Pole color, mounting height, and bulb type should conform to DDOT standards and should be consistent throughout the Triangle.

SPACING

Street lights along K Street should be positioned opposite each other across the street, in accordance with DDOT standards. This pattern will help define the edge of the street and emphasize the significance of this major retail corridor. Spacing should also conform to DDOT standards. On all other streets and avenues, street lights should be positioned and spaced according to DDOT standards.

Other Plantings

GENERAL CONCEPT

Benches, trash receptacles, and bicycle racks are intended for retail areas, parks, bus stops, and other public areas. In general, site furniture should not be used along residential streets.

TRADITIONAL METAL BENCH

The traditional metal bench is located in the Reservations and at regular intervals along New Jersey Avenue, with concentrations at bus stops, public parks, and important intersections. The six-foot-long bench is steel, coated with a rust inhibitor and painted black. The bench has end arms and a center arm. Placement and installation conform to DDOT standards.

CONTEMPORARY METAL BENCH

The contemporary metal bench is located at regular intervals along K, 5th, and 6th Streets. The six-foot-long bench has aluminum castings and a perforated steel seat and back. The bench has end arms and a seat divider. Placement and installation conform to DDOT standards.

CUSTOM METAL BENCH

Custom metal benches are located in the Reservations. The design should be in keeping with historical precedent and approved by DDOT and NPS.

TRADITIONAL TRASH RECEPTACLE

Placed at street intersections, adjacent to bus shelters and seating, in front of retail establishments, and in other public areas, these are used in conjunction with the traditional metal benches

CONTEMPORARY TRASH RECEPTACLE

Placed in front of restaurants and retail establishments, at street intersections, adjacent to seating, and in other public areas, these are used in conjunction with the contemporary metal benches.

BICYCLE RACKS

Placed at bus stops, shopping areas, plazas, parks, and other public facilities in clearly visible locations, the DC standard metal hoop-type bicycle rack is recommended. Place and install according to DC standards.



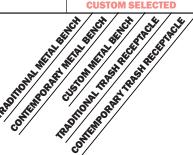
Traditional metal bench



Contemporary (left) and traditional (right) trash receptacles

MATRIX OF STREETS AND RECOMMENDED SITE FURNITURE

Massachusetts Avenue						
New York Avenue						
New Jersey Avenue						
H Street		N	0	N	E	
Eye Street		N	0	N	E	
K Street						
L Street		N	0	N	E	
7th Street		N	0	N	E	
6th Street						
5th Street						
4th Street		N	0	N	E	
3rd Street		N	0	N	E	
2nd Street		N	0	N	E	
Reservations						
Plaza	C	USTO	M S	SEL	ECTE!	D





Pressed concrete pavers

PRESSED CONCRETE PAVERS

Pressed concrete pavers are recommended for all of the Triangle's avenues and for H, 7th, 6th, 5th, and 2nd Streets and the interior sidewalk zone of K Street. These pavers should be gray in color and should be set on a 4" concrete base.

K STREET UNIT PAVERS

Along K Street, a special unit paver is recommended for the sidewalk zone adjacent to the street. The material should be clay brick with a warm brown color.

EXPOSED AGGREGATE CONCRETE PAVEMENT

Exposed aggregate concrete pavement with a fine texture is recommended for the Reservations, as this resembles the material that was originally envisioned in the 1902 design of the Monumental Core.

PLAZA PAVEMENT

For the plazas at the intersection of 5th and K Streets, quartzite, marble, or similar material pavers in contrasting brown and buff colors are recommended.

BRICK

Brick pavers, consistent with DDOT standards, are recommended for Eye, L, 3rd, and 4th Streets.

MATRIX OF STREETS AND RECOMMENDED PAVING AND CURBS

Massachusetts Avenue						
New York Avenue						
New Jersey Avenue						
H Street						
Eye Street						
K Street						
L Street						
7th Street						
6th Street						
5th Street						
4th Street						
3rd Street						
2nd Street						
Reservations						
Reservations	O POP	id of the control of	SHC. Of	and so	it est	
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K Street unit pavers (shown for color and texture only)

GRANITE CURB

A 7"H x 8"W x 6'-0"L granite curb, consistent with DDOT standards, is recommended for all streets within the neighborhood.

STANDARD BRICK GUTTER

A standard, 12" wide brick gutter, consistent with DDOT standards, is recommended for all streets within the neighborhood except K Street.

3' BRICK GUTTER

The brick gutters along K Street should be widened to 3' along the entire length of the street to help mark the special significance of the street as well as enable a more gradual break in the cross-slope.

CROSSWALKS

The DDOT standard "Piano"/"Ladder" bar type thermoplastic markings are recommended for all crosswalks.

UNIT PAVERS

See page 35.

LOW-IMPACT DEVELOPMENT OPPORTUNITY

Paved areas should be graded to ensure that stormwater runoff is directed to planting strips and tree boxes.

Site Furniture

Paving & Curbs